

**FAG****7024-XL-MPA-UA**

Angular contact ball bearing

Angular contact ball bearing 70.-XL-MPA,
single row, solid brass cage**X-life**

Technical information



Your current product variant

Sealing	Without	Not sealed
Cage	MPA	Solid brass cage, outer ring guided
Tolerance class	PN	Normal (ISO 492:2023)
Dimensional / heat stabilization	S0	Rings dimensional stabilized up to 150°
Bearing with matched conditions for fitting in pairs	UA	Bearing set with small axial internal clearance
Lubricant	Without	Bearing not greased

Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	180 mm	Outside diameter
B	28 mm	Width
C _r	107.000 N	Basic dynamic load rating, radial
C _{0r}	117.000 N	Basic static load rating, radial
C _{ur}	6.600 N	Fatigue load limit, radial
n _G	6.100 1/min	Limiting speed
n _{gr}	3.500 1/min	Reference speed
m	2,355 kg	Weight



Mounting dimensions

$d_{a \min}$	128,8 mm	Minimum diameter of shaft shoulder
$D_{a \max}$	171,2 mm	Maximum diameter of housing shoulder
$D_{b \max}$	175,4 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum fillet radius of shaft
$r_{a1 \max}$	1 mm	Maximum fillet radius of housing

Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
$r_{1 \min}$	1 mm	Minimum chamfer dimension
D_1	156,6 mm	Shoulder diameter on outer ring wide side face
d_1	143,8 mm	Shoulder diameter on inner ring wide side face
a	57,3 mm	Distance between the apexes of the pressure cones
α	30 °	Contact angle

Temperature range

T_{\min}	-30 °C	Operating temperature min.
T_{\max}	150 °C	Operating temperature max.

Additional information

A_{\min}	58 μm	Axial clearance per set min.
Tol (+)	12 μm	Tolerance for axial clearance or preload per set

Characteristics

	Radial load
	Axial load in one direction
	Grease Lubrication
	Oil Lubrication
	Not sealed